

[illegible]

	90	100	110	120	130	140	150	160	170	
Consensus	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
Identity										
1. 17v2 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
2. F US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
3. H129 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
4. KOS US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
5. McKr US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
6. HF10 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPK
7. CR38 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
8. E03 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
9. E06 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
10. E07 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
11. E08 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
12. E10 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
13. E11 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
14. E12 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
15. E13 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
16. E14 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
17. E15 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
18. E19 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
19. E22 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
20. E23 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
21. E25 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
22. E35 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
23. R11 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
24. R62 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
25. S23 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE
26. S25 US2	TGLFAEDSPL	ESTEVVDAVA	CFRLLHRDQ	PPRLYLHLW	VVGAADLC	VPFLEYAQ	KIRLGVR	FIAIKTPDA	WVGEPWAV	PTRFLPE

	180	190	200	210	220	230	240	250
Consensus	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
Identity								
1. 17v2 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
2. F US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EIPDEQ	
3. H129 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EIPDEQ	
4. KOS US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPAT	SHPLTTSH	SVRRP	CCACMGMP	EILD
5. McKr US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
6. HF10 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
7. CR38 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
8. E03 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
9. E06 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
10. E07 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
11. E08 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
12. E10 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
13. E11 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
14. E12 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
15. E13 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
16. E14 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPG	TLTTSHPVRRP	CCACMGMP	EVPDEQ	
17. E15 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
18. E19 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
19. E22 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
20. E23 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
21. E25 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPAT	SHPLTTSH	SVRRP	CCACMGMP	EIPDEQ
22. E35 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
23. R11 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
24. R62 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
25. S23 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	
26. S25 US2	WTVAWTFPPAAPNHPLETL	LSRYEYQYGVVLP	PGTNGRERDCMRWLR	SLIALHKKHPHPATPGPL	TTSHPVRRP	CCACMGMP	EVPDEQ	

	260	270	280	291
Consensus	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
Identity				
1. 17v2 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
2. F US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
3. H129 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
4. KOS US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
5. McKr US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
6. HF10 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
7. CR38 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
8. E03 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
9. E06 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
10. E07 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
11. E08 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
12. E10 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
13. E11 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
14. E12 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
15. E13 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
16. E14 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
17. E15 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
18. E19 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
19. E22 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
20. E23 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
21. E25 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
22. E35 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
23. R11 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
24. R62 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
25. S23 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			
26. S25 US2	TSPGRGPQETDPLIAVRGERPRLPHICYPVTTL			